

Title (en)

Arbor press staple and washer and method for its use.

Title (de)

Klammer, Unterlegscheibe und Anwendungsmethode.

Title (fr)

Agrafe, rondelle et methode d'utilisation.

Publication

**EP 0624350 A3 19951129 (EN)**

Application

**EP 94303358 A 19940510**

Priority

US 5961893 A 19930512

Abstract (en)

[origin: US5352229A] An arbor press staple and washer of the invention is for use in a practice of a surgical procedure for securing a ligament, that is either natural or prosthetic, onto a bone cortex surface and includes a staple having spaced equal parallel legs with a flat web arranged between the top ends of the staple legs. The staple is for driving into a bone cortex surface and includes barb ridges around three of its four sides for resisting staple withdrawal. The staple flat web includes at least one hole, that is preferably tapped, formed therethrough that is for receiving a threaded section of a threaded pin turned therethrough, and includes a pair of guide posts that extend, at right angles, from the web undersurface. An arbor plate type washer, that is a flat plate that has concave notches formed in opposite ends, is for arrangement between the staple legs, the concave notches sliding along the staple legs prohibiting washer rotation. The flat plate includes a pair of guide post holes that receive the guide pins that extend from the staple web undersurface, and includes a center smooth hole wherethrough a pin end of the threaded pin travels to where the threaded section lower face and engages the flat plate top surface, the continued turning of the threaded pin to urge the washer away from the staple web, causing spikes that extend from the washer flat plate undersurface to travel through a ligament that the staple legs straddle and into a bone cortex surface.

IPC 1-7

**A61B 17/58**

IPC 8 full level

**A61B 17/064** (2006.01); **A61B 17/56** (2006.01)

CPC (source: EP US)

**A61B 17/0642** (2013.01 - EP US); **A61B 2017/0641** (2013.01 - EP US)

Citation (search report)

- [XP] EP 0552109 A1 19930721 - CENDIS MEDICAL SARL [FR]
- [XY] FR 2622430 A1 19890505 - LABOUREAU JACQUES [FR]
- [Y] EP 0443892 A1 19910828 - SOFAMOR [FR]
- [A] WO 9106249 A1 19910516 - SEEDHOM BAHAA BOTROS [GB]
- [A] EP 0358372 A1 19900314 - MARLOWE GOBLE E [US], et al & US 358372 A 18870222
- [A] SOVIET PATENTS ABSTRACTS Section PQ Week 9245, 23 December 1992 Derwent World Patents Index; Class P31, AN 92-371498

Cited by

CN103179911A; US9839458B2; US10058366B2; US10285743B2; TWI586310B

Designated contracting state (EPC)

DE ES FR GB IT NL

DOCDB simple family (publication)

**US 5352229 A 19941004**; AU 6197294 A 19941117; CA 2122947 A1 19941113; EP 0624350 A2 19941117; EP 0624350 A3 19951129; JP H06327697 A 19941129

DOCDB simple family (application)

**US 5961893 A 19930512**; AU 6197294 A 19940509; CA 2122947 A 19940505; EP 94303358 A 19940510; JP 12298794 A 19940511